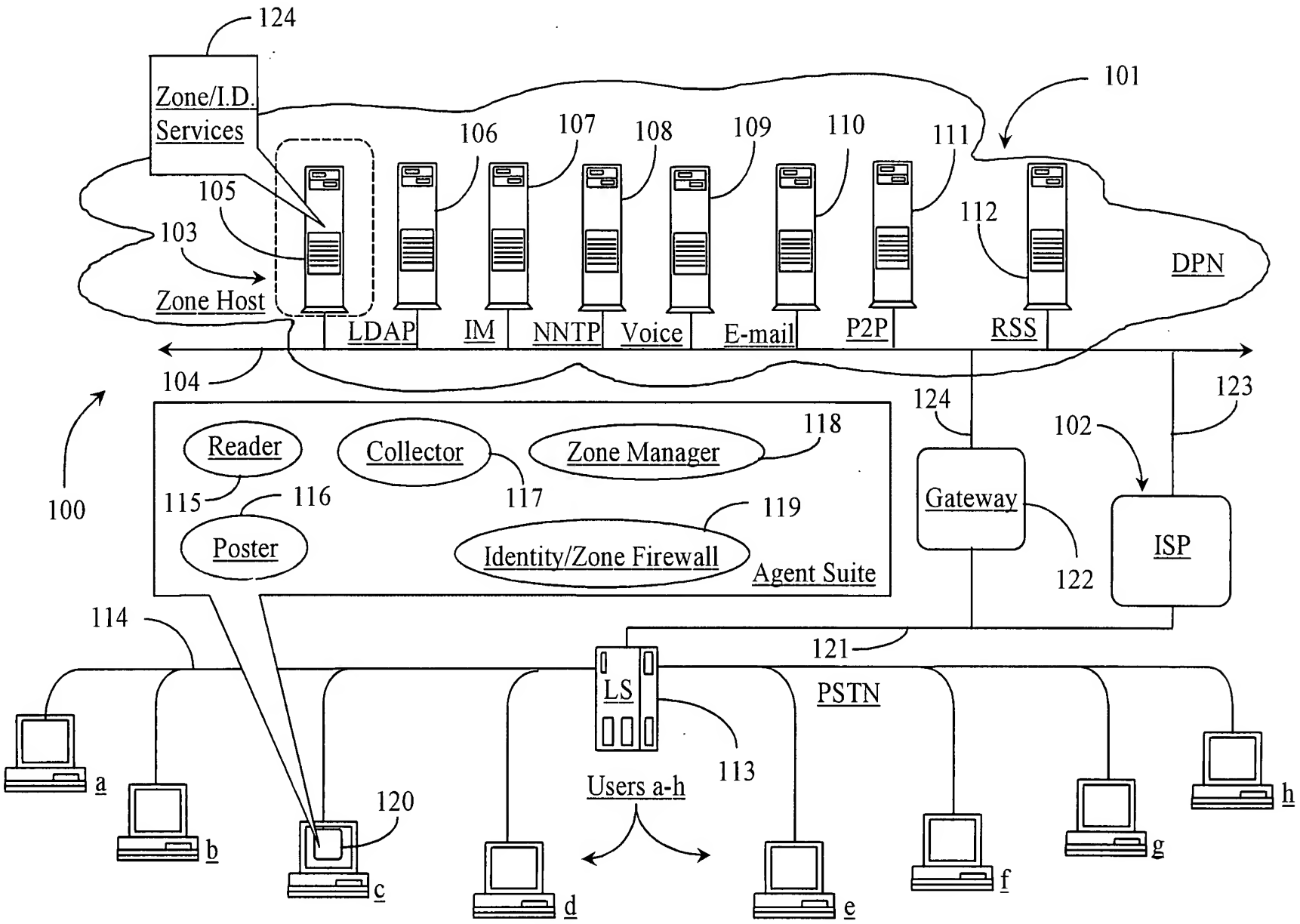
124
Zone/I.D. Services
101
106
107
108
109
110
111
105
103
112
DPN
Zone Host
LDAP
IM
NNTP
Voice
E-mail
P2P
RSS
104
123
124
102
118
Reader
Collector
Zone Manager
100
115
116
117
119
Gateway
ISP
Poster
Identity/Zone Firewall
Agent Suite
122
114
121
LS
PSTN
113
Users a-h
120
a
b
c
d
e
f
g
h

Fig. 1

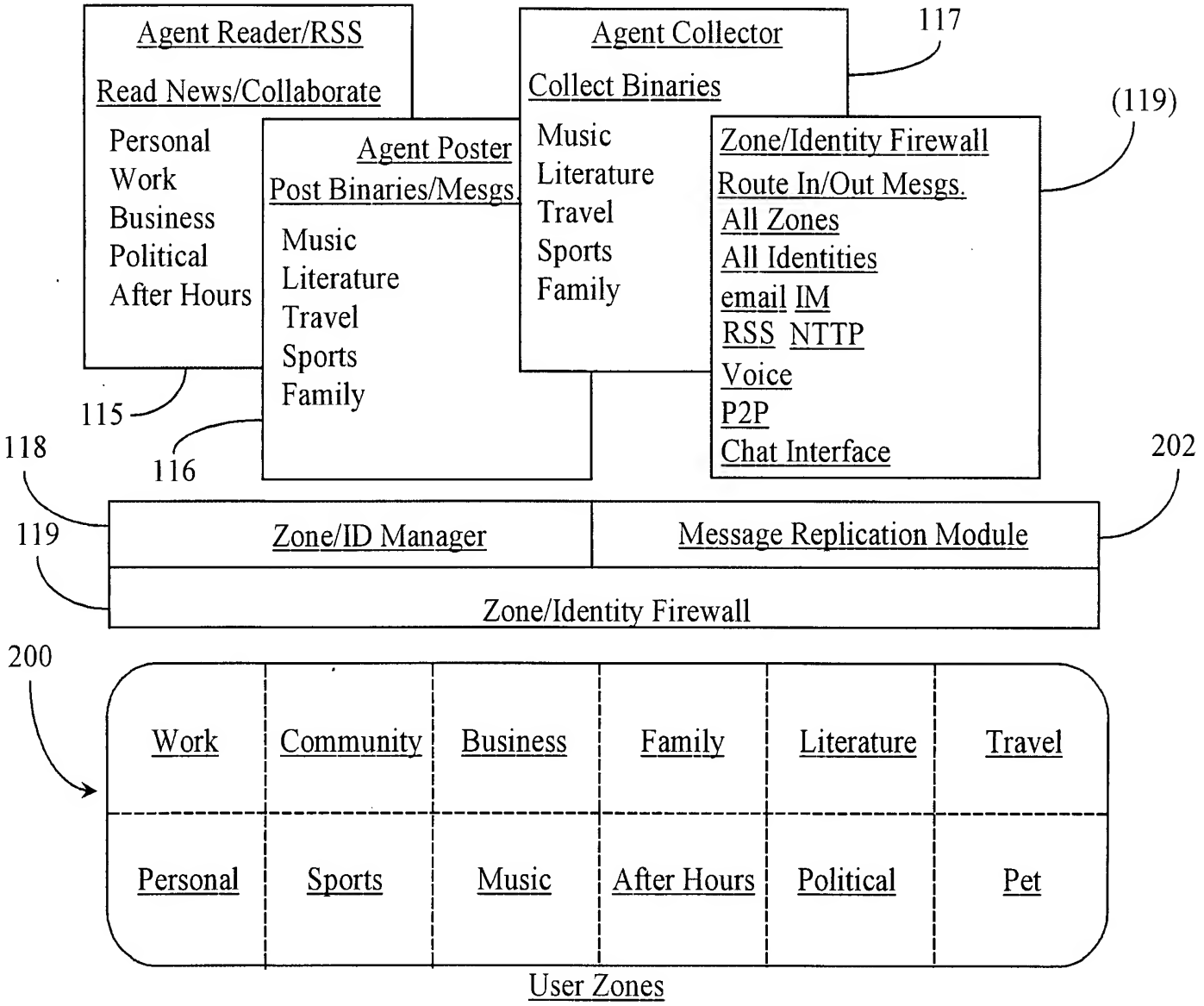
Agent Reader/RSS
Read News/Collaborate
Personal
Work
Business
Political
After Hours
115
Agent Poster
Post Binaries/Mesgs.
Music
Literature
Travel
Sports
Family
116
Agent Collector
Collect Binaries
Music
Literature
Travel
Sports
Family
117
Zone/Identity Firewall
Route In/Out Mesgs.
All Zones
All Identities
email IM
RSS NTTP
Voice
P2P
Chat Interface
(119)
118
119
202
Zone/ID Manager
Message Replication Module
Zone/Identity Firewall
200
Work
Community
Business
Family
Literature
Travel
Personal
Sports
Music
After Hours
Political
Pet
User Zones

Fig. 2

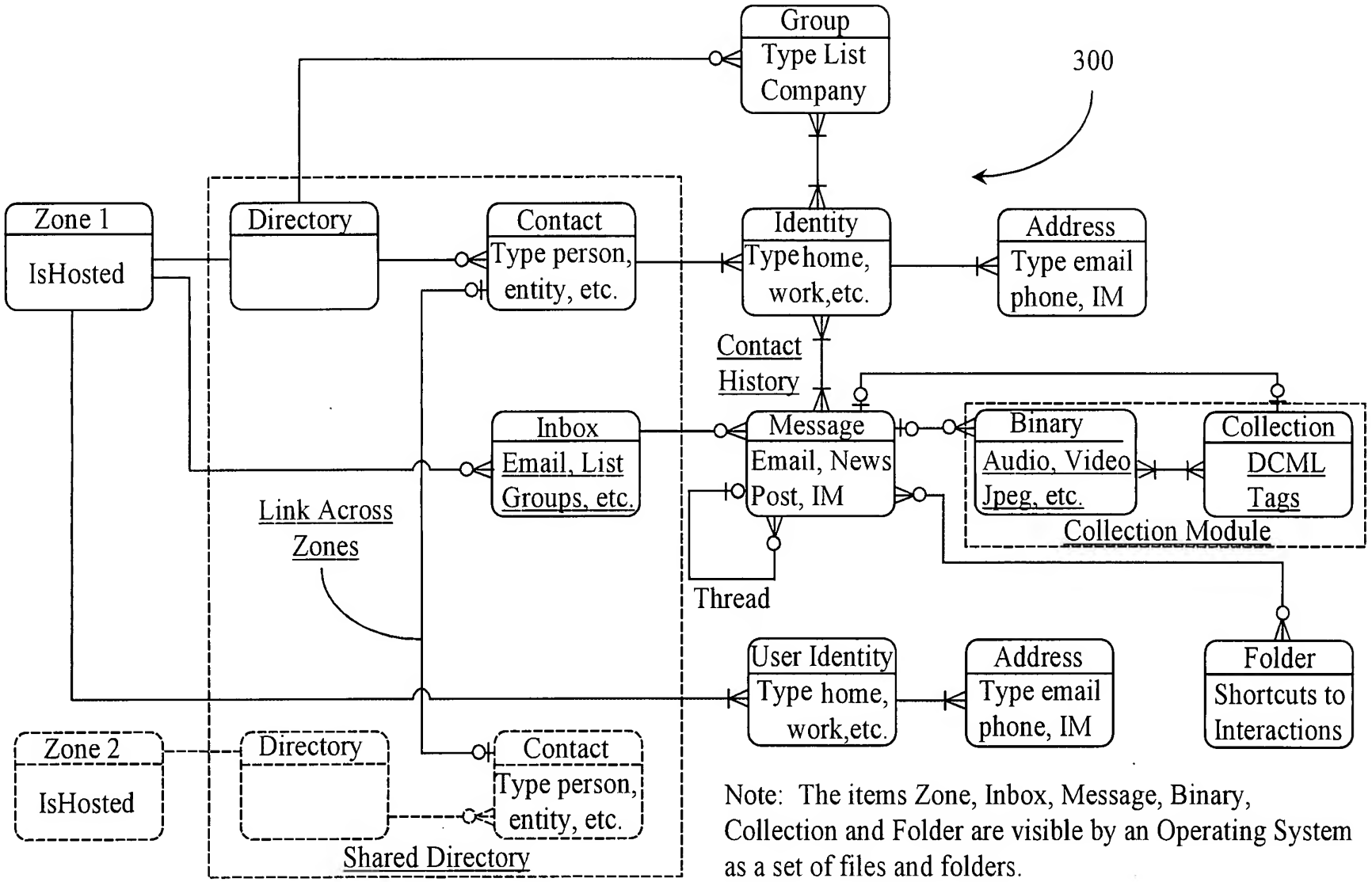

Fig. 3 ***(ER diagram zone structure)***

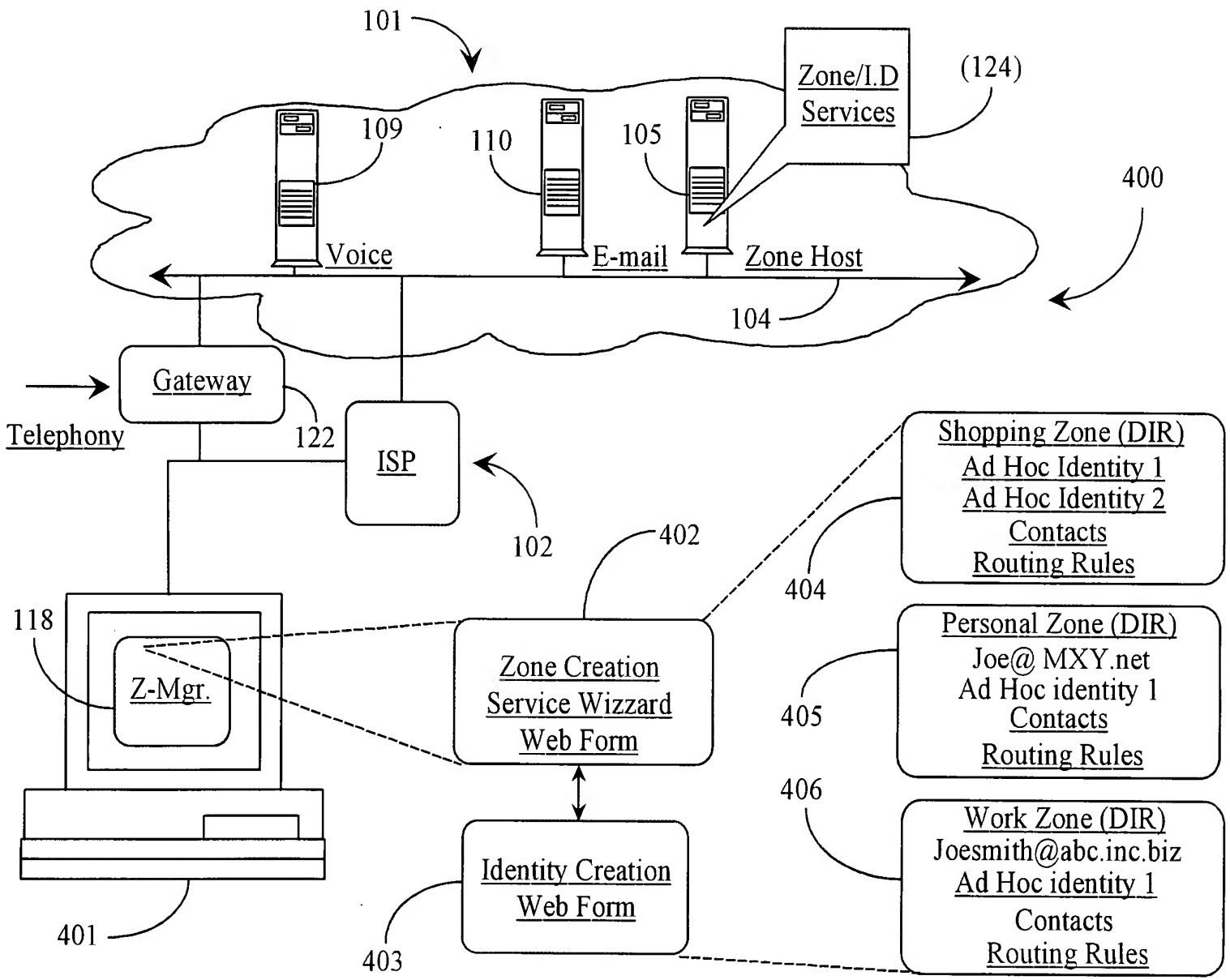
101
Zone/I.D
Services
(124)
109
110
105
400
Voice
E-mail
Zone Host
104
Gateway
Telephony
122
ISP
102
402
Shopping Zone (DIR)
Ad Hoc Identity 1
Ad Hoc Identity 2
Contacts
Routing Rules
404
118
Z-Mgr.
Zone Creation
Service Wizzard
Web Form
Personal Zone (DIR)
Joe@ MXY.net
Ad Hoc identity 1
Contacts
Routing Rules
405
406
Work Zone (DIR)
Joesmith@abc.inc.biz
Ad Hoc identity 1
Contacts
Routing Rules
Identity Creation
Web Form
401
403

Fig. 4

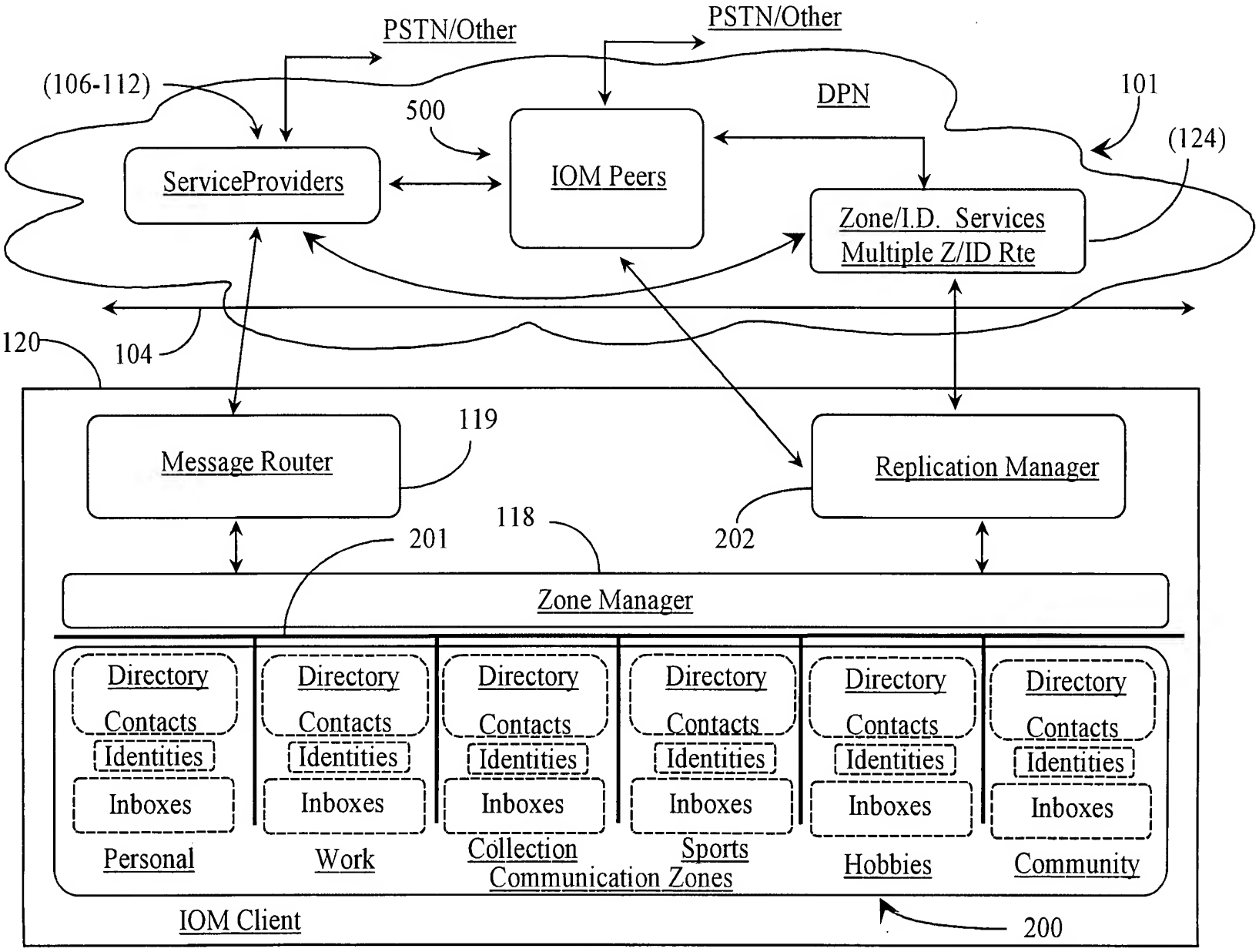
PSTN/Other
PSTN/Other
(106-112)
500
DPN
101
(124)
ServiceProviders
IOM Peers
Zone/I.D. Services
Multiple Z/ID Rte
120
104
119
Message Router
Replication Manager
118
201
202
Zone Manager
Directory
Contacts
Identities
Inboxes
Personal
Work
Collection
Sports
Communication Zones
Hobbies
Community
IOM Client
200

Fig. 5

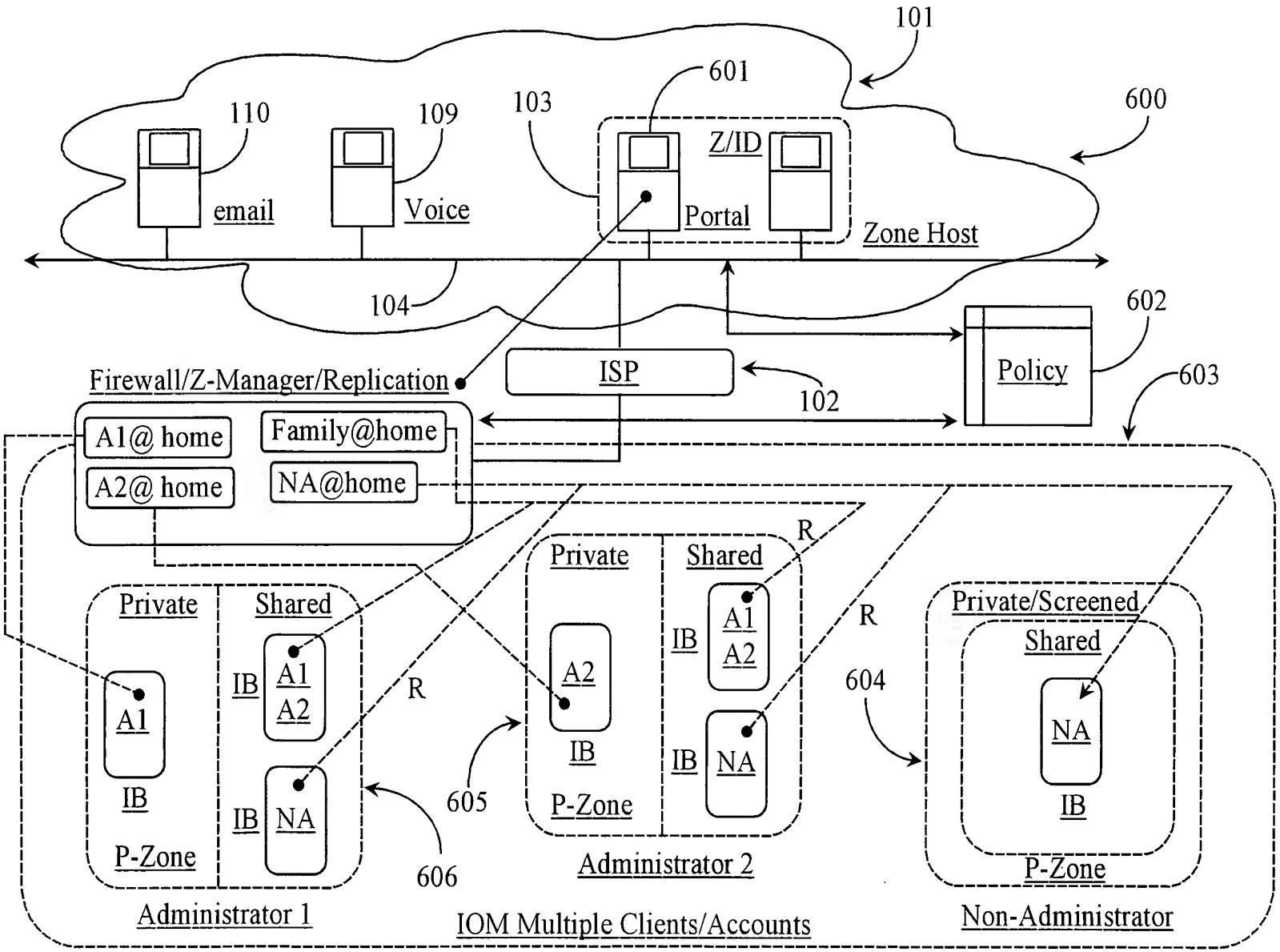
101
601
600
110
109
103
Z/ID
email
Voice
Portal
Zone Host
104
602
Policy
603
Firewall/Z-Manager/Replication
ISP
102
A1@ home
Family@home
A2@ home
NA@home
R
Private
Shared
Private/Screened
IB
A1
A2
NA
P-Zone
605
606
604
Administrator 1
Administrator 2
Non-Administrator
IOM Multiple Clients/Accounts

Fig. 6

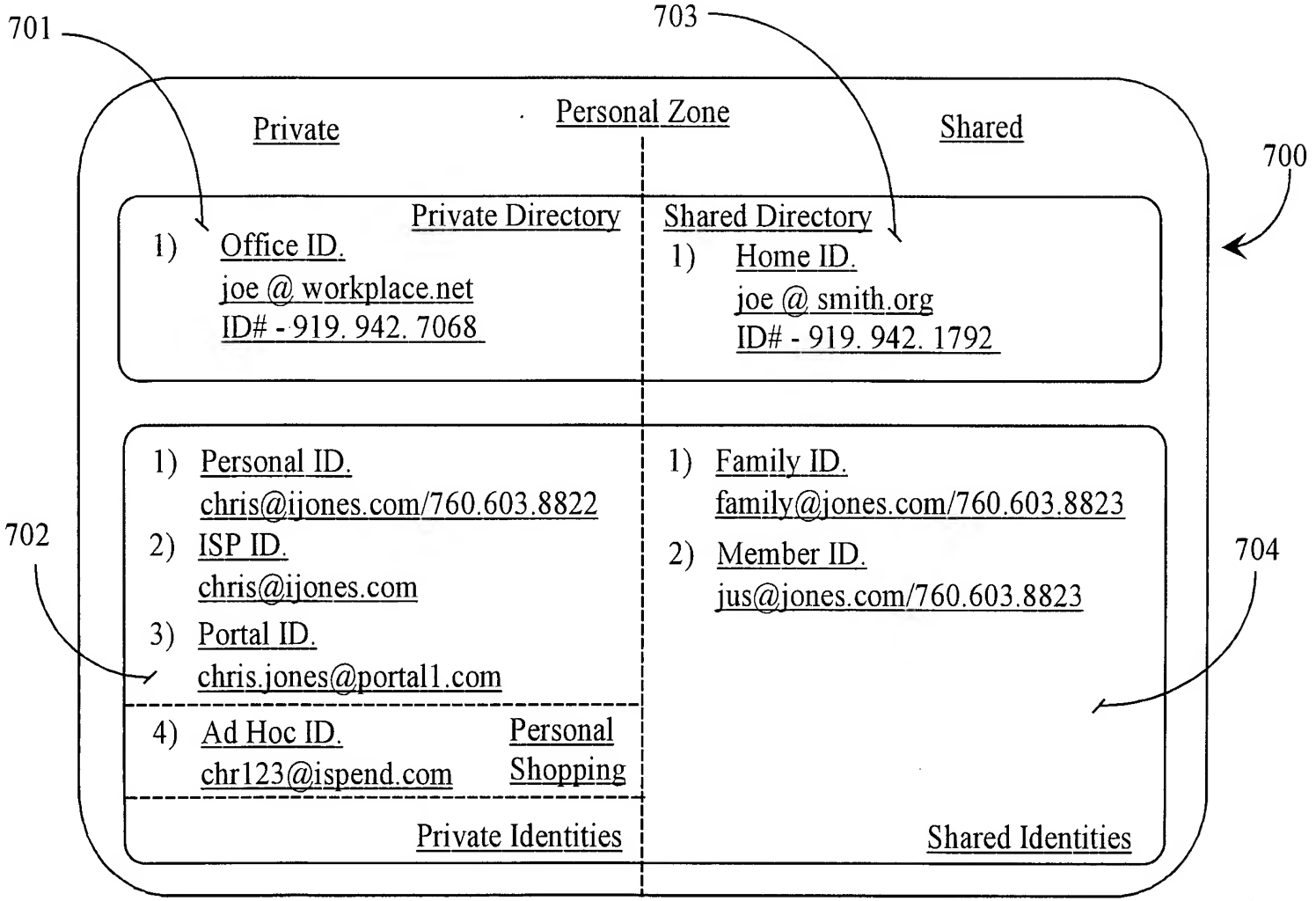
701
703
Private
Personal Zone
Shared
700
Private Directory
1) Office ID.
joe @ workplace.net
ID# - 919. 942. 7068
Shared Directory
1) Home ID.
joe @ smith.org
ID# - 919. 942. 1792
1) Personal ID.
chris@ijones.com/760.603.8822
2) ISP ID.
chris@ijones.com
3) Portal ID.
chris.jones@portal1.com
1) Family ID.
family@jones.com/760.603.8823
2) Member ID.
jus@jones.com/760.603.8823
702
704
4) Ad Hoc ID.
chr123@ispend.com
Personal Shopping
Private Identities
Shared Identities

Fig. 7

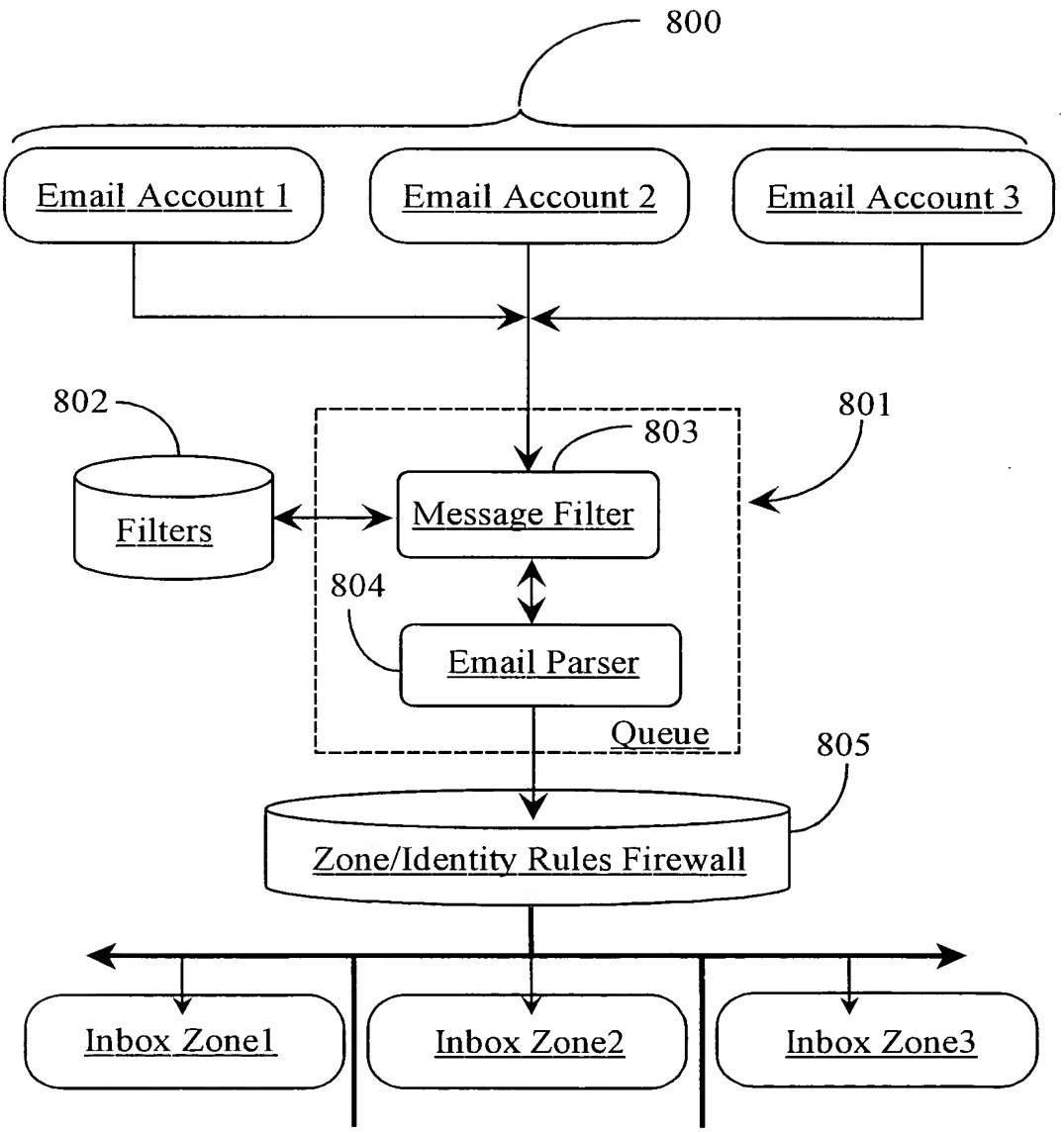
800
Email Account 1
Email Account 2
Email Account 3
802
801
803
Filters
Message Filter
804
Email Parser
Queue
805
Zone/Identity Rules Firewall
Inbox Zone1
Inbox Zone2
Inbox Zone3

Fig. 8

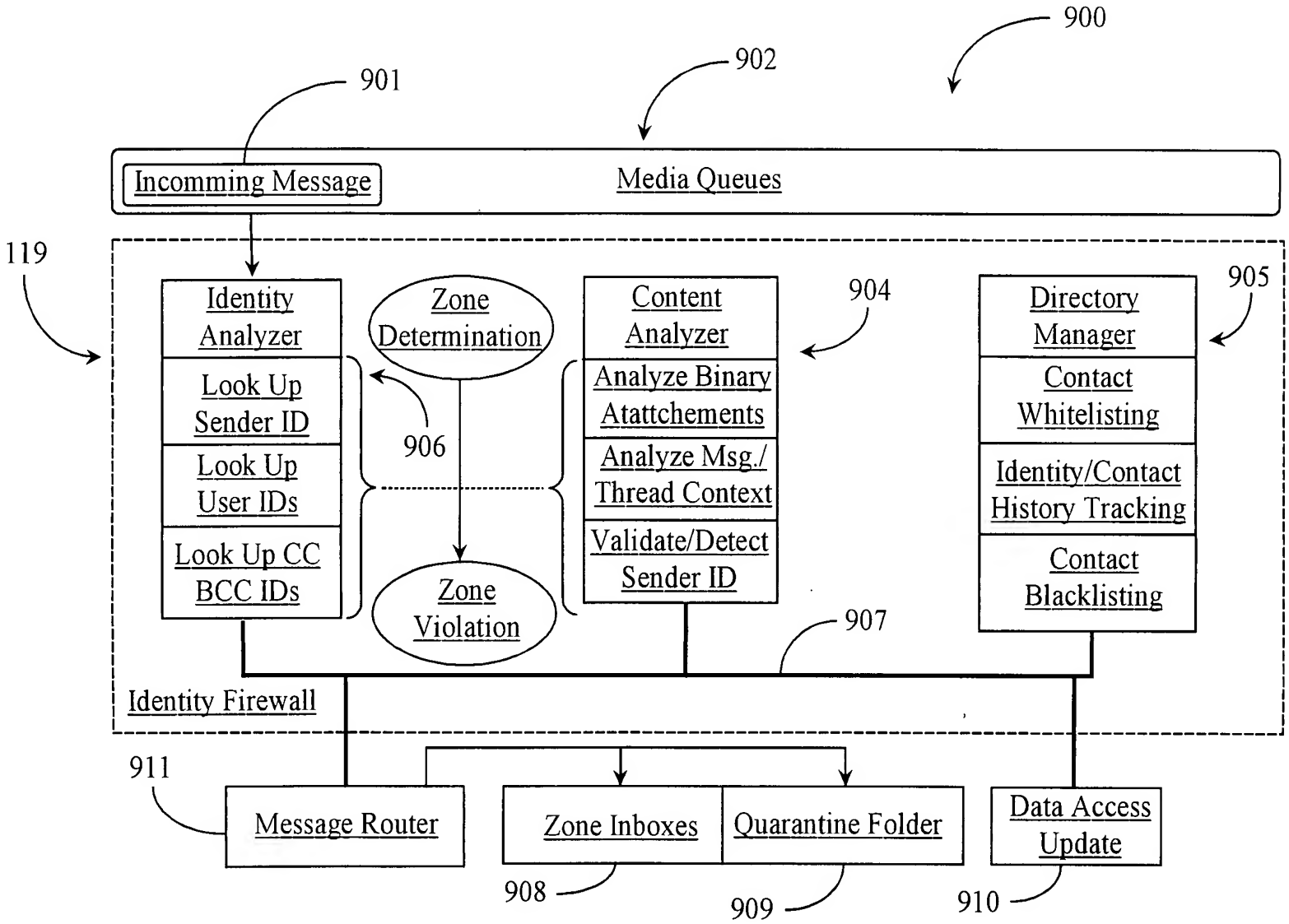
900
901
902
Incomming Message
Media Queues
119
Identity Analyzer
Look Up Sender ID
Look Up User IDs
Look Up CC BCC IDs
Zone Determination
906
Zone Violation
Content Analyzer
904
Analyze Binary Atattchements
Analyze Msg./ Thread Context
Validate/Detect Sender ID
Directory Manager
905
Contact Whitelisting
Identity/Contact History Tracking
Contact Blacklisting
907
Identity Firewall
911
Message Router
Zone Inboxes
Quarantine Folder
Data Access Update
908
909
910

Fig. 9

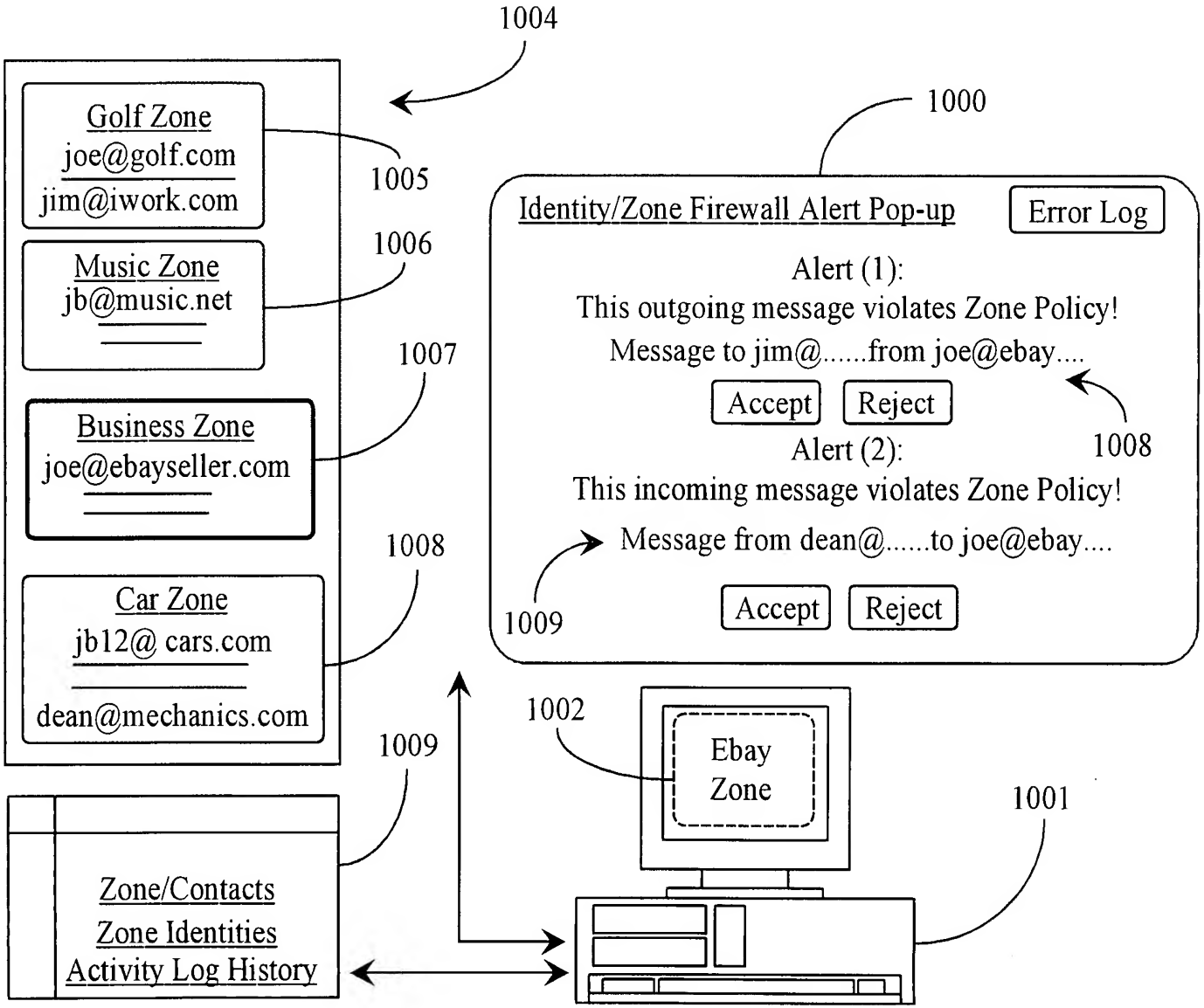
1004
1000
Golf Zone
joe@golf.com
jim@iwork.com
1005
Music Zone
jb@music.net
1006
Business Zone
joe@ebayseller.com
1007
Car Zone
jb12@ cars.com
dean@mechanics.com
1008
1009
Zone/Contacts
Zone Identities
Activity Log History
Identity/Zone Firewall Alert Pop-up
Error Log
Alert (1):
This outgoing message violates Zone Policy!
Message to jim@.....from joe@ebay....
Accept
Reject
1008
Alert (2):
This incoming message violates Zone Policy!
Message from dean@.....to joe@ebay....
1009
Accept
Reject
1002
Ebay
Zone
1001

Fig. 10

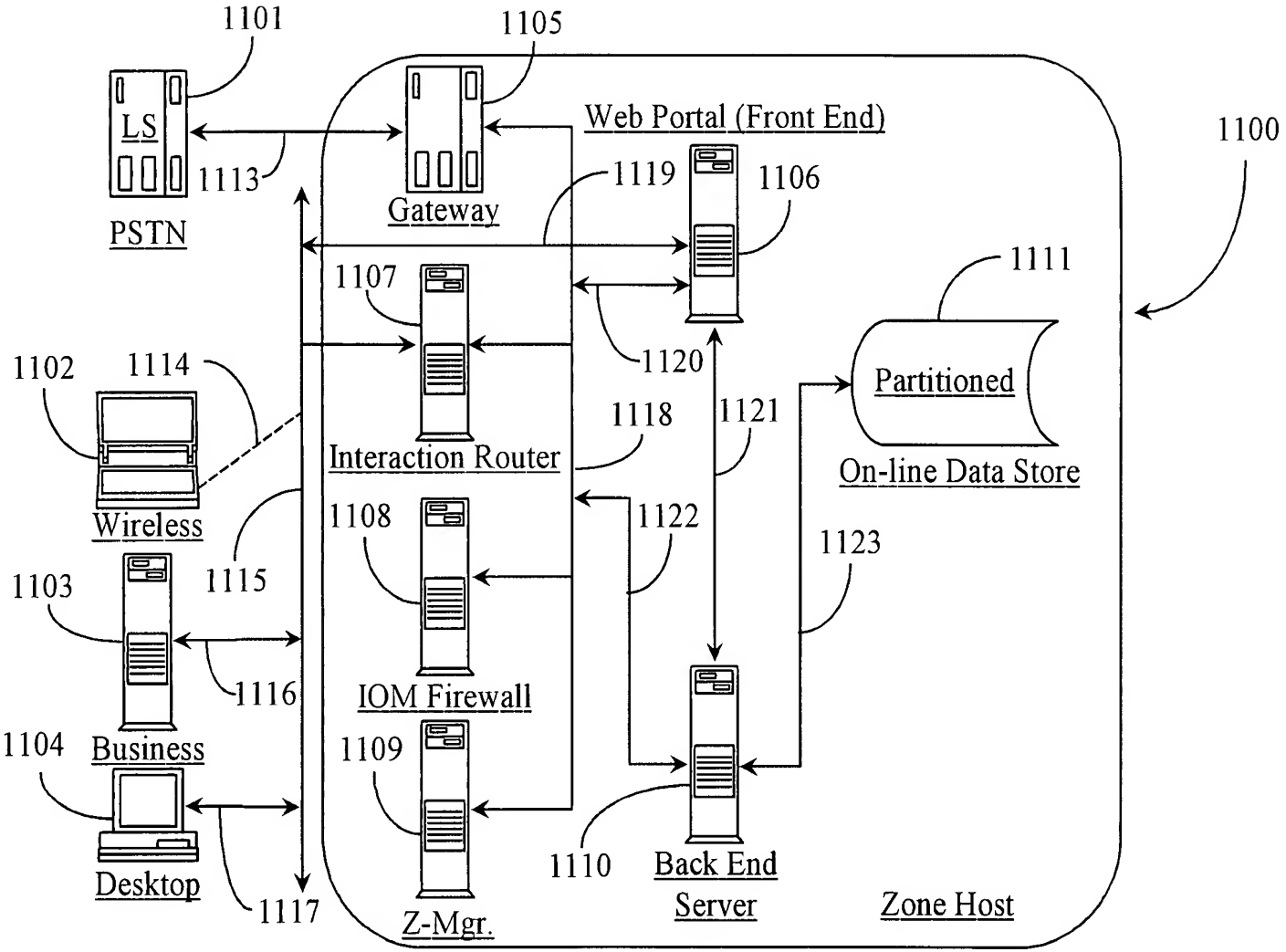

Fig. 11 (Zone Host Archtecture)

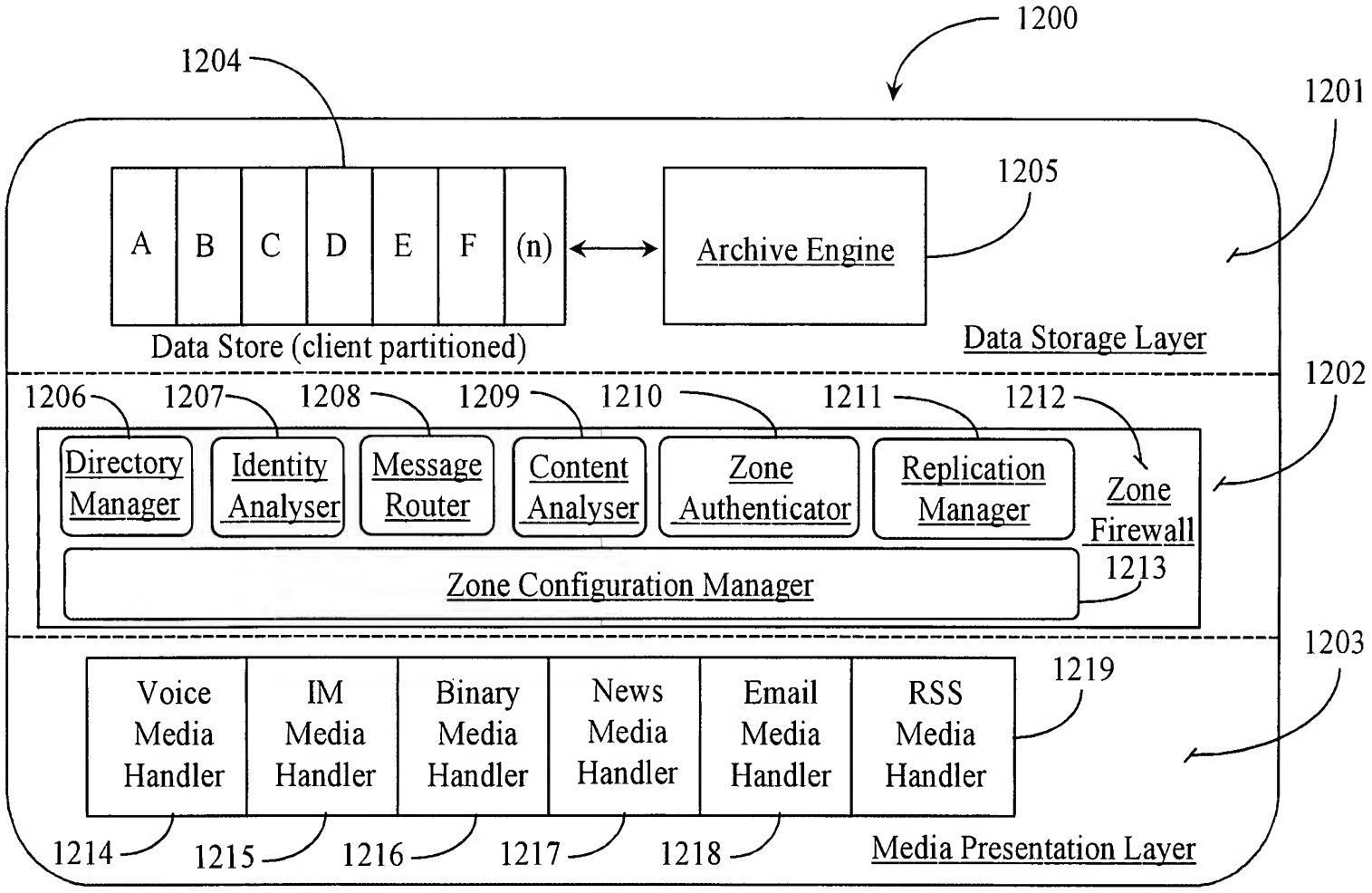

Fig. 12 (software layers/components)

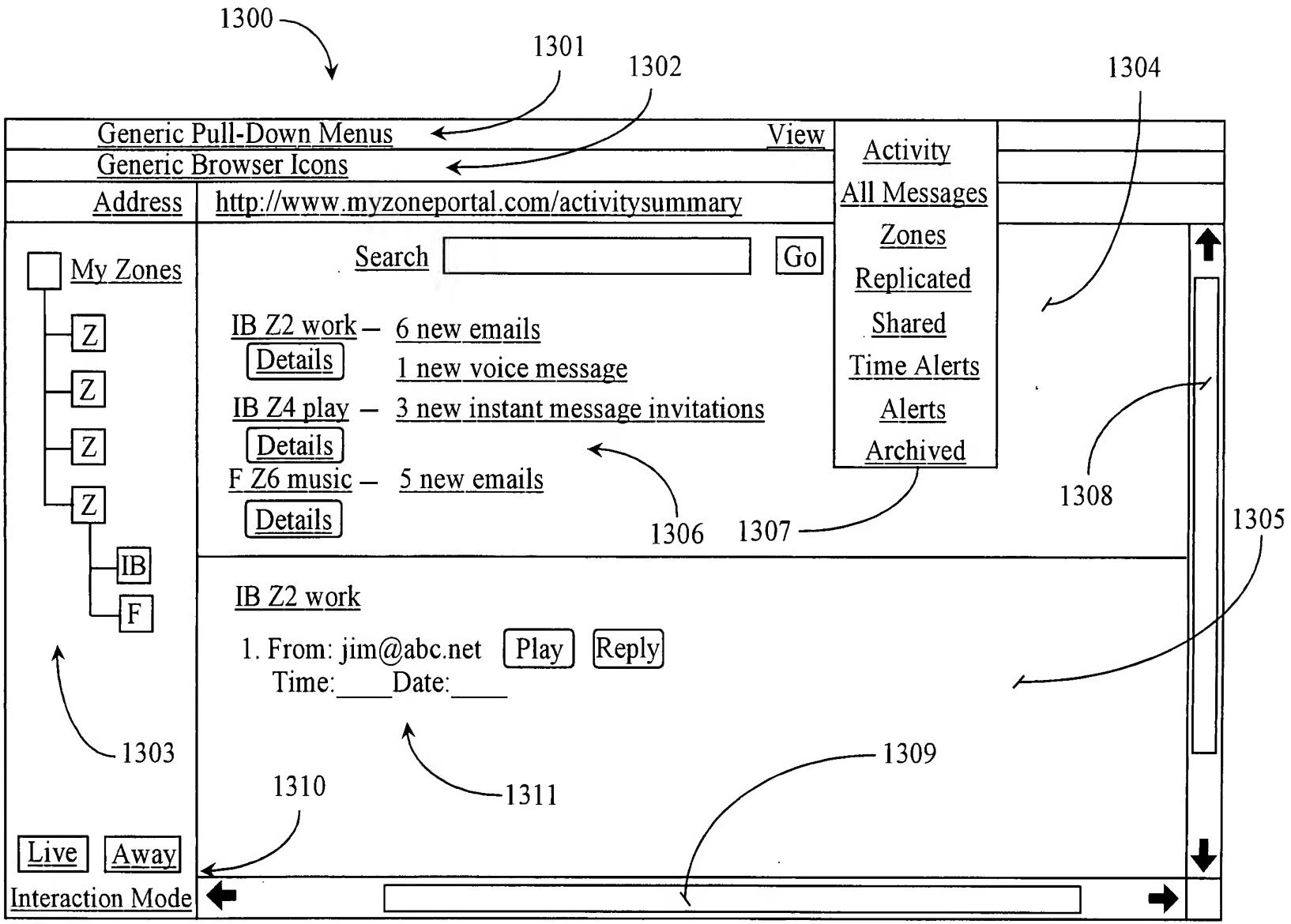
1300
1301
1302
1304
Generic Pull-Down Menus
View
Generic Browser Icons
Address
http://www.myzoneportal.com/activitysummary
Activity
All Messages
Zones
Replicated
Shared
Time Alerts
Alerts
Archived
My Zones
Z
Z
Z
Z
IB
F
Search
Go
IB Z2 work – 6 new emails
Details
1 new voice message
IB Z4 play – 3 new instant message invitations
Details
F Z6 music – 5 new emails
Details
1306
1307
1308
1305
IB Z2 work
1. From: jim@abc.net
Play
Reply
Time:____Date:____
1303
1310
1311
1309
Live
Away
Interaction Mode

Fig. 13